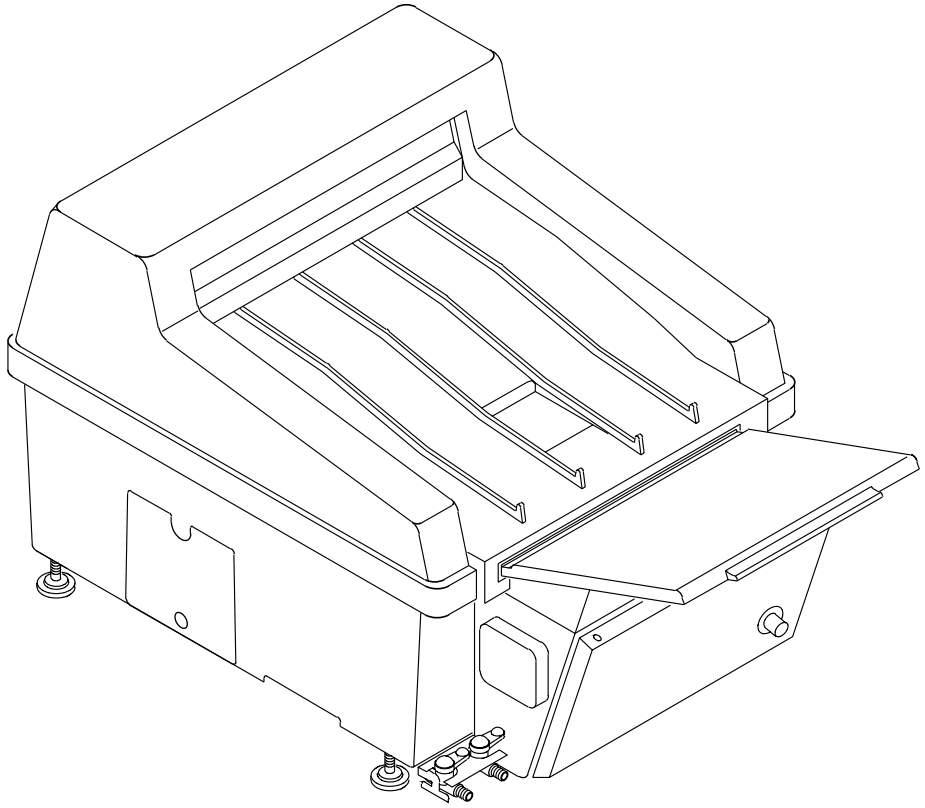
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HEALTH IMAGING

OPERATOR MANUAL
for the
Kodak X-Omat 1000, 1000A, and 1000J
PROCESSORS



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Warning

To avoid hazardous conditions, keep floors and floor coverings around your KODAK X-OMAT Processor and associated drains clean and dry at all times. Any accumulation of fluids from mixing tanks, drain lines, etc, should be cleaned up immediately. In the event of an accumulation of liquid due to backup, overflow, or other malfunctions of the drain associated with your Processor, disconnect the power to the Processor and call a plumber or other contractor to correct any problem with the drain. Kodak accepts no responsibility or liability whatsoever for the serviceability of any drain connected to or associated with a KODAK X-OMAT Processor. Such drains are the sole responsibility of the customer.

The KODAK X-OMAT Processor must be at least 1.5 m (5 feet) from the patient exposure area.

DIN 1988 Part 4, Drinking Water Supply Systems: The KODAK X-OMAT 1000, 1000A, and 1000J Processors have a Free Outlet (DIN Part 4.2.1) water supply as shown in the figure on Page 9. The Outlet has an inside diameter of 5 mm and a clearance of 34 mm between the end of the Outlet and the spill-over level of the solution.

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Section 1: Overview

Product Description

Model	Electrical Requirements
1000 Processor	220/230/240 V AC, 50/60 Hz
1000J Processor	100 V AC, 50/60 Hz
1000A Processor	120 V AC, 50/60 Hz

The KODAK X-OMAT 1000, 1000A, and 1000J Processors are fully automatic table-top, x-ray film Processors featuring easy installation and maintenance, reliability, and optimum image quality.

Noise Emission Information

Operator position full system operating mode:

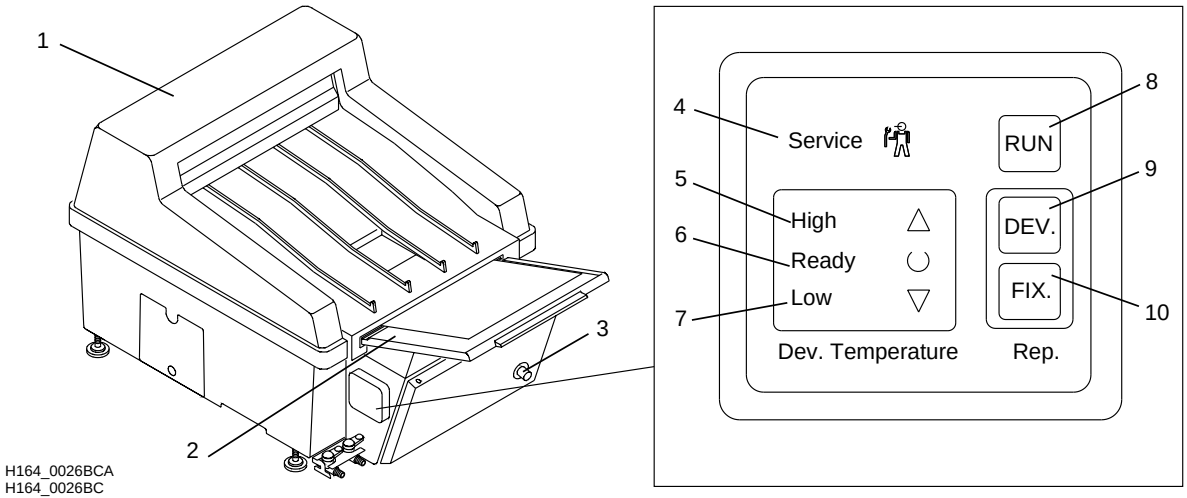
- Sound Pressure Level54 dB(A)L_A (1)
- Instantaneous Peak Values > or = 130dB(C)None

Sound Power Level65 dB(A)(2)

(1) Measured in accordance with DIN 45635 in a Hemi-Anechoic chamber (2) Not required when the Sound Pressure Level L_A is < 85 dB(A)

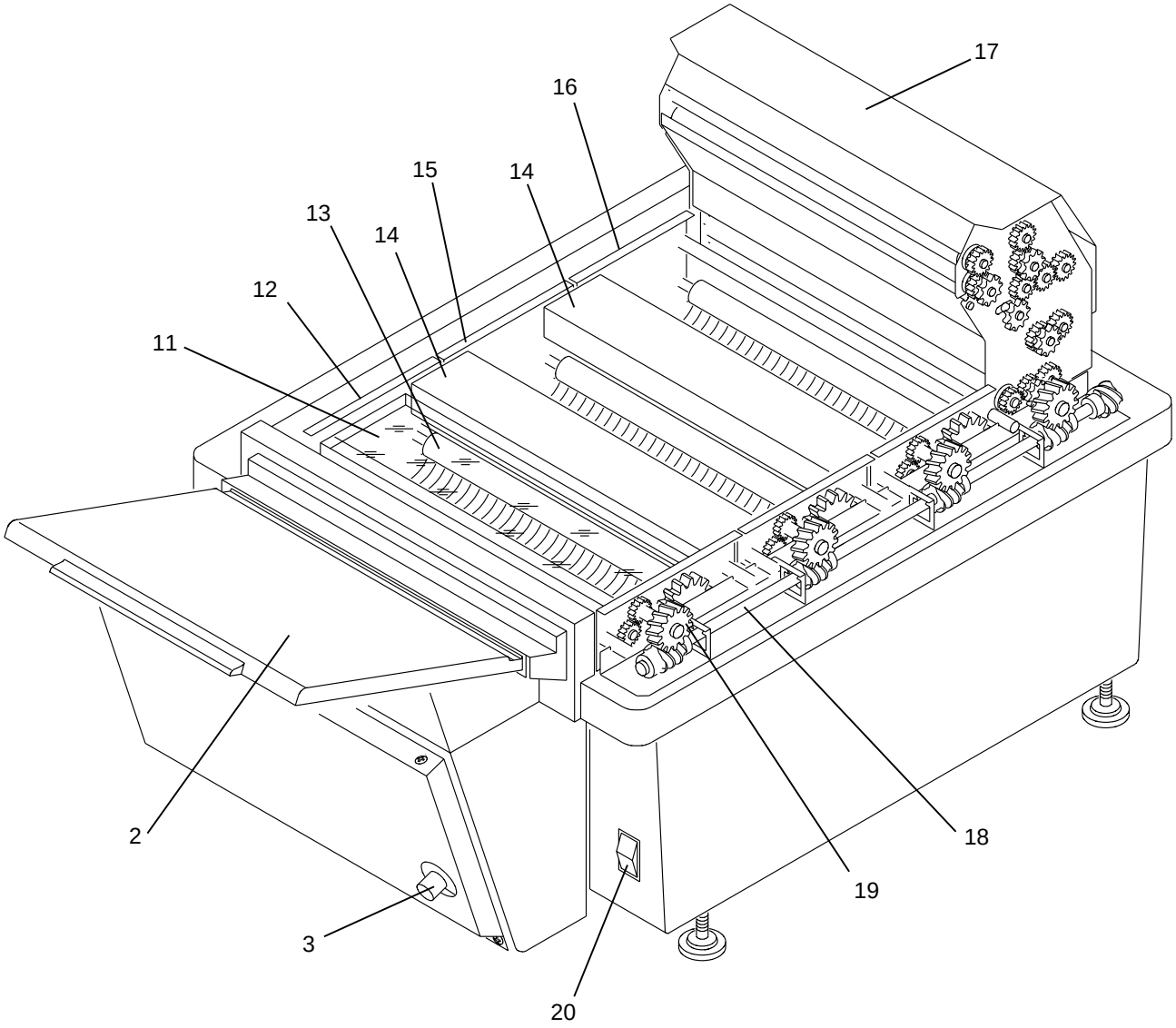
Identifying the Parts of the Processor Referred to in this Operator Manual

Figure 1 **Overall View of the Processor and the Operator Controls**



Item No.	Control	Description
3	Dryer Temperature Control Knob	Rotates to adjust the temperature of the air in the Dryer.
4	“Service”	Illuminates when the service provider should be contacted.
5	“High” s	Illuminates when the developer temperature is over the setpoint.
6	“Ready” »	Illuminates when the developer temperature is correct for processing film. It blinks when either film is processing or the Wash Tank is filling with water.
7	“Low” t	Illuminates when the developer temperature is below the setpoint.
8	[RUN]	Manually starts one processing cycle. Releases the Processor from Standby Mode.
9	[DEV.]	Manually delivers one developer replenishment cycle.
10	[FIX.]	Manually delivers one fixer replenishment cycle.

Figure 2 **The Processor without the Top Cover**



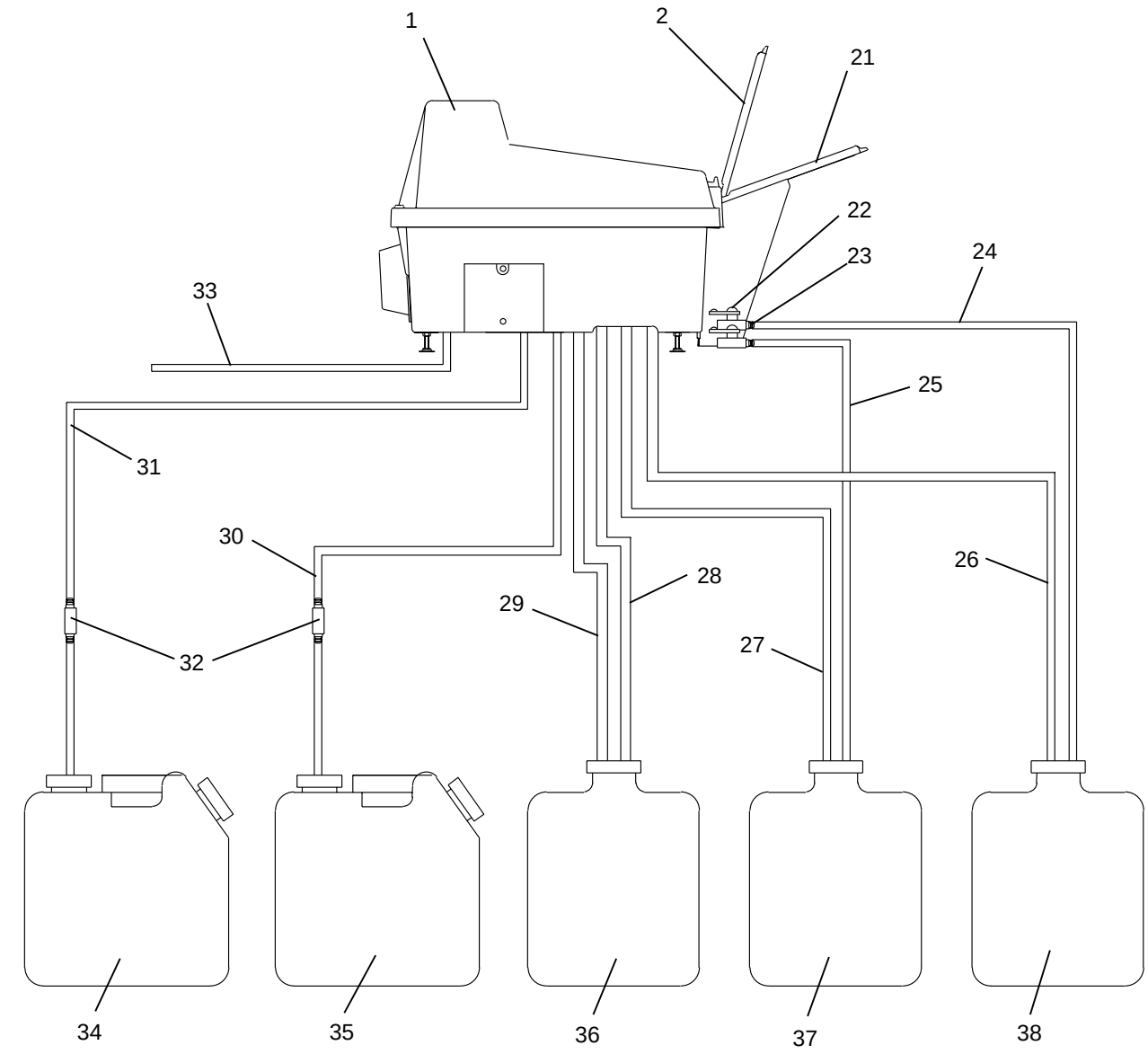
H164_0021DCA
H164_0021DC

Note

See also the illustrations on Pages 9 - 11.

Item No.	Description	Item No.	Description
1	Top Cover	**17**	Dryer Rack
2	Lid of the Feed Tray	**18**	Drive Shaft
3 - 10	See the table on Page 3.	**19**	Drive Gear
11	Evaporation Cover	**20**	“Power” Switch
12	Developer Rack	**21**	Feed Tray
13	Roller	**22**	Developer Drain Valve (red)
14	Crossover	**23**	Fixer Drain Valve (blue)
15	Fixer Rack	**24**	Developer Drain Hose
16	Wash Rack	**25**	Fixer Drain Hose

Figure 3 **Processor with Replenishment and Drain Hoses Inserted in the Correct Containers**



H164_0064DCA
H164_0064DC

Item No.	Description	Item No.	Description
26	Developer Overflow Hose	**35**	Developer Replenishment Container
27	Fixer Overflow Hose	**36**	Wash Water Drain Container
28	Wash Water Drain Hose	**37**	Fixer Drain Container
29	Wash Water Overflow Hose	**38**	Developer Drain Container
30	Developer Replenishment Hose	**39**	Developer Tank
31	Fixer Replenishment Hose	**40**	Fixer Tank
32	Replenishment Filter	**41**	Wash Tank
33	Wash Water Supply	**42**	Screen Filter
34	Fixer Replenishment Container	**43**	Pitcher

Section 2: Operating Instructions

Daily Start-Up

Warning

- If Drain Containers **(36, 37, 38)** are used, continually check that the Drain Containers have enough room in them to accommodate more solution and will not overflow.
- If the Processor drains solutions into a floor drain, the drain must be made of chemically resistant, non-corrosive material. Use PVC or the equivalent.
- The floor drain must have a minimum diameter of 7.6 cm (3 in.) and be free of obstruction.
- Drain service must comply with all local codes.
- Do not make a solid connection to the floor drain. Use an open floor drain with a minimum clearance of 2.5 cm (1 in.) between the tubing from the Processor and the sides of the floor drain.
- If the Processor has not been used in a week or more, change the Replenishment Filters **(32)** .

[1] Check the solution levels in the Replenishment Containers **(34, 35)** and in the Drain Containers **(36, 37, 38)** .

(a) If the levels in the Replenishment Containers are low, mix more solutions and add to the Containers. See Page 11.

(b) If the Drain Containers are almost full, replace them with empty Containers.

[2] Remove the Top Cover **(1)** by holding the front and back with both hands and lifting the Top Cover straight up.

[3] Check the solution levels in the Developer and Fixer Tanks **(39, 40)** in the Processor. (The Tanks are shown in Figure 6 on Page 10.)

Caution

Even small amounts of one solution can seriously contaminate the other and cause poor quality x-ray images. This is especially true when fixer contaminates the developer. To help avoid contamination, thoroughly rinse the Pitcher or other Containers before and after each use. Or you may want to have a separate set of implements for the fixer and for the developer.

(a) If the fixer is low, add more fixer solution to the Fixer Tank **(40)** until fixer solution comes out of the Overflow Hose **(27)** .

(b) Check the solution level in the Developer Tank **(39)** , and add more developer if necessary.

Note

You can add solution to the Tanks in two ways - by either pouring the appropriate solution from the Pitcher **(43)** or pressing [DEV.] or [FIX.] **(9 or 10)** until solution comes out of the Overflow Hose **(26 or 27)** .

[4] Close the Top Cover **(1)** of the Processor.

[5] Press the four corners of the Top Cover to check that it is closed tightly.

- If the Top Cover is not closed tightly, light will enter the Processor and fog the film, and the Rollers **(13)** will not accept film.

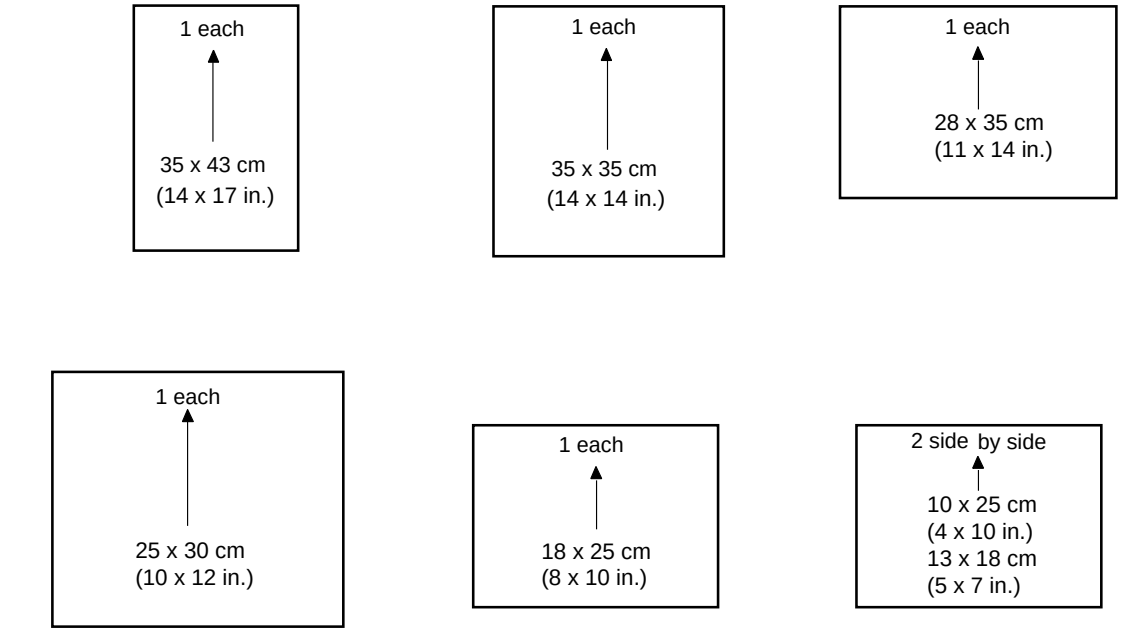
[6] Press the “ | ” on the “Power” Switch **(20)** to turn the Processor on.

[7] Turn on the water to the Processor.

[8] The “Ready” Light » **(6)** will illuminate and a beep will sound when the Processor is ready to process film.

Film Feeding Procedure

Figure 4 **Feeding Film into the Processor**



H164_0019HC

Important

- When inserting the film, bring it into contact with the left side of the Feed Tray **(21)**. Insert the film slowly. Once the film is inserted, do not pull it back or the developer on the edge of the film may moisten the Feed Tray, resulting in uneven development of a film or in a transport problem.
- The Feed Tray **(21)** is 35 cm (14 in.) long. If a film is longer than 35 cm (14 in.), do not close the Lid of the Feed Tray **(2)** until the end of the film is inside the Feed Tray. Check that it is closed tightly. Or feed the next sheet of film, when the beep has sounded and the “Ready” Light turns on.
- Closing the Lid of the Feed Tray **(2)** tightly blocks the room light. As soon as you close the Lid of the Feed Tray, you may turn the room lights on.
- Approximately 5 minutes after the last sheet of film is finished processing, the Processor will automatically go into the Standby Mode to save energy.
  - While in the Standby Mode, various components inside the Processor will run intermittently to maintain the temperature of the developer.
  - In the Dryer, the fan rotates slowly and the Dryer goes to the preheating condition to keep the heat chambers warm.
  - If you need to insert a film while the Processor is in the Standby Mode, insert it through the Feed Tray. A sensor will detect the sheet of film and switch the Processor out of Standby Mode.

[1] Before processing a sheet of film, check that:

- the “Ready” Light » **(6)** is on, but not blinking
- the room lights are off

[2] Lift the Lid of the Feed Tray **(2)** and place a sheet of film inside the Feed Tray. Align the film along the left side of the Feed Tray **(21)** . See Figure 4 on Page 7 for the correct orientation for feeding each size of film.

[3] Slowly feed the sheet of film into the Processor. When the film starts to move by itself, release the film.

[4] When the trailing edge of the sheet of film is inside of the Feed Tray, close the Lid of the Feed Tray tightly.

[5] The “Ready” Light **(6)** keeps blinking until the trailing edge of the inserted film has entered the Developer Rack **(12)** . When the “Ready” Light stops blinking, a beep will sound and you may insert another sheet of film.

Daily Shutdown of the Processor

Note

If you are going to shut the Processor down for more than a week, do the procedure on Page 9 instead.

[1] If the Processor has a Wash Water Drain Container **(36)** , check the solution level in it. There must be room for at least 3.8 litres in it. If not, empty the Container or replace it with a new one.

[2] Turn off the water to the Processor.

[3] Press the “ O ” on the “Power” Switch **(20)** to turn the Processor off. Do not turn off the main power circuit breaker at the wall of the darkroom or unplug the Processor.

Note

The fan on the back of the Processor will continue to run.

[4] Remove the Top Cover **(1)** by holding the front and back with both hands and lifting the Top Cover straight up.

[5] Remove the two Crossovers **(14)** .

[6] Rinse the Crossovers with water, and dry them.

[7] Install the Crossovers in the correct orientation, by matching the “D”, “F”, and “W” on the Crossovers with the “D”, “F”, and “W” on the Racks **(12, 15, 16)** .

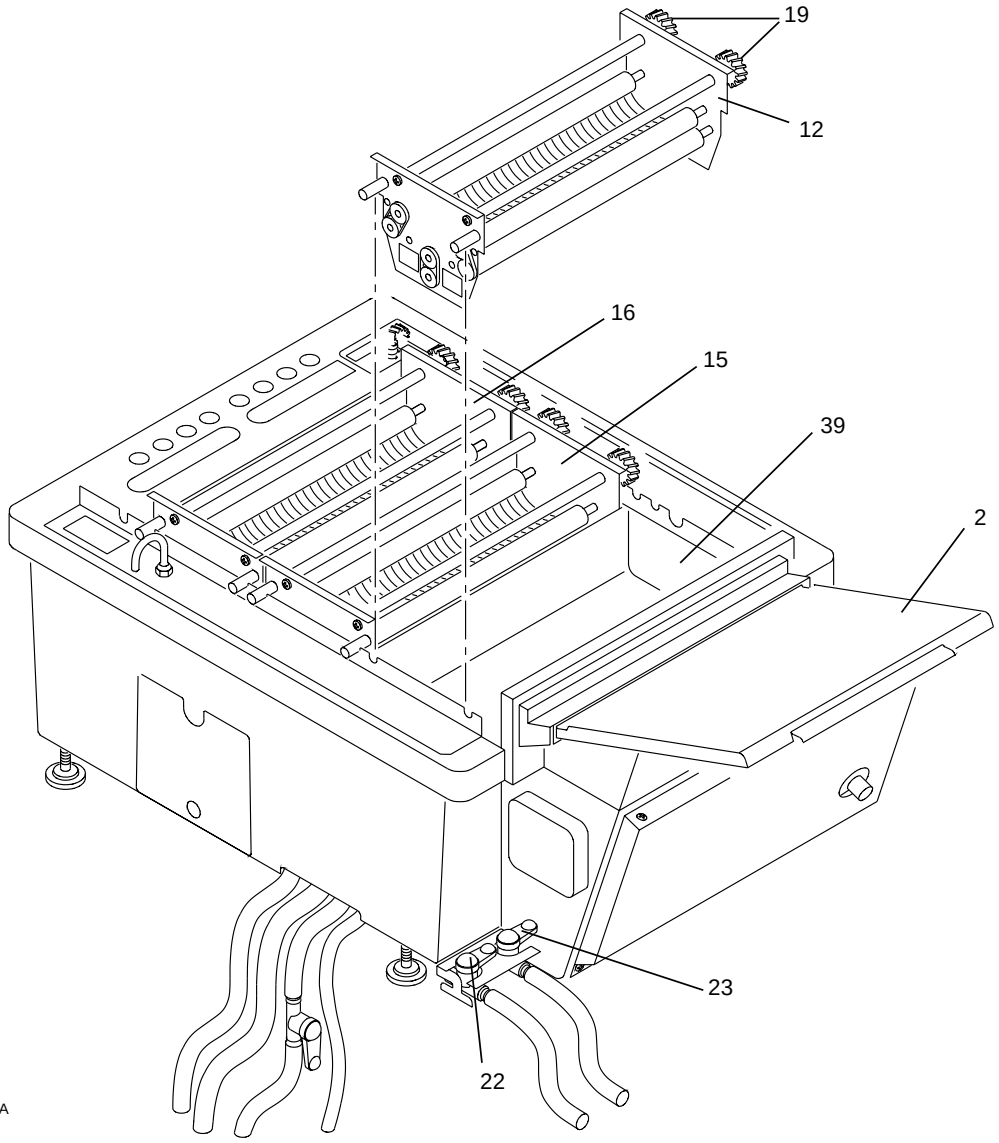
[8] Press the corners of the Crossovers to assure that they are fully seated.

[9] Close the Top Cover of the Processor.

[10] Do not turn off the ventilation fan in the darkroom. If the darkroom does not have a fan, leave the darkroom door open.

Draining and Cleaning the Tanks, in Preparation for Changing the Chemicals or Storing the Processor for More Than a Week

Figure 5 **Rinsing the Racks**



H164_0014DCA
H164_0014DC

[1] Press the " O " on the "Power" Switch **(20)** to turn the Processor off.

[2] Turn off the main power circuit breaker at the wall of the darkroom or unplug the Processor.

[3] Turn off the water to the Processor.

[4] Check that the Drain Containers **(36, 37, 38)** will accommodate more solution and will not overflow.

[5] Drain the developer and fixer solutions from the Tanks in the Processor by opening the red (developer) and blue (fixer) Drain Valves **(22, 23)** .

[6] Remove the Top Cover **(1)** by holding the front and back with both hands and lifting the Top Cover straight up.

[7] Remove the developer Evaporation Cover **(11)** , the Crossovers **(14)** , and the Racks **(12, 15, 16)** . Rinse them with water.

[8] Close the Drain Valves **(22, 23)** .

[9] Remove the Replenishment Hoses **(30, 31)** from the Replenishment Containers **(34, 35)** . Empty and rinse the Replenishment Containers with water.

[10] Fill the Replenishment Containers with water, and place the ends of the Replenishment Hoses in the Containers.

[11] Place the Developer and Fixer Drain Hoses **(24, 25)** into the Wash Water Drain Container **(36)** or into the floor drain (if allowed by local codes).

[12] Use the Pitcher **(43)** to pour 4 litres of water into the Developer and Fixer Tanks **(39, 40)** in the Processor.

[13] Turn on the power main circuit breaker at the wall or plug the Processor in.

[14] Press the " | " on the "Power" Switch **(20)** . This will circulate the water for a few minutes.

[15] Press [DEV.] **(9)** at least 3 times. Then, press [FIX.] **(10)** at least 3 times.

[16] Press the " O " on the "Power" Switch.

[17] Open the Drain Valves **(22, 23)** and drain the water from the Tanks in the Processor.

[18] Repeat Steps 12 - 17 two or three times to rinse the recirculation system of the Processor.

[19] When the rinse water in the Developer and Fixer Tanks is clean, press the " O " on the "Power" Switch.

[20] While the water is draining, remove crystal deposits from the inner walls of the Developer and Fixer Tanks **(39, 40)** with a non-abrasive sponge or lint-free cloth.

Note

Do not try to remove developer stains completely from the Racks and Tanks. This is normal.

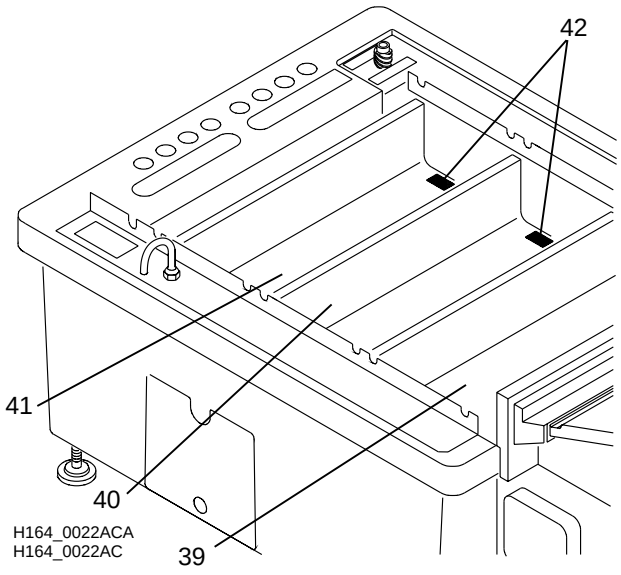
[21] Check the 2 Screen Filters **(42)** .

(a) If the Filters are clogged, rub the Filters with a tooth brush.

(b) Rinse the Filters with water.

(c) Return the Filters to their original positions in the Tanks.

Figure 6 **Cleaning the Tanks and the Screen Filters**



[22] Rinse the Tanks, and wipe them with a lint-free cloth. To avoid any contamination, wipe the Developer Tank **(39)** first, then the Fixer Tank **(40)**, and the Wash Tank **(41)** last.

[23] Install the Racks **(12, 15, 16)** and Crossovers **(14)** . Press on the corners of the Crossovers to assure that they are fully seated.

[24] Install the Evaporation Cover **(11)** on the Developer Rack **(12)** .

(a) First insert the end of the Evaporation Cover that is next to the Drive Gears **(19)** .

(b) Insert the other end and press into place.

[25] Close the Top Cover **(1)** of the Processor.

[26] If the Processor will not be used for more than one week, leave the Tanks empty and the Top Cover on and unplug the Processor. If you are replacing the chemicals, see the next section.

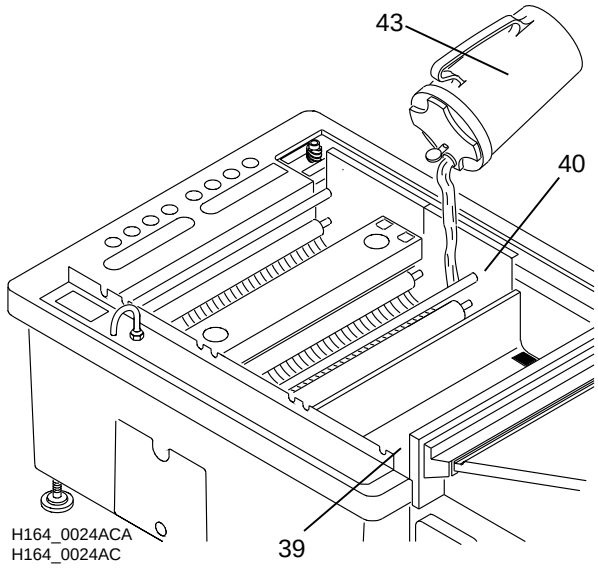
Section 3: Replenishment Solutions

Mixing the Developer and Fixer Replenishers

Use KODAK *RP* X-OMAT Developer Replenisher and KODAK *RP* X-OMAT *LO* Fixer and Replenisher. Avoid contaminating the chemical solutions by intermixing them. Clean the Pitcher **(43)** after each use. Carefully follow the mixing directions packed with the Replenishers. The 1000 Processors are set before shipment to be used in the Flooded Mode. Unless the mode of your Processor has been changed, you must add KODAK *RP* X-OMAT Developer Starter to the Developer Replenishment Container **(35)** at the rate of 3 fl oz/gallon or 90 mL/3.8 L. If you are not sure whether the Processor is set to Flooded or Regular Mode, ask your service provider.

Filling the Tanks in the Processor

Figure 7 **Filling the Tanks**



[1] Press the " O " on the "Power" Switch **(20)** to turn the Processor off.

[2] Turn off the main power circuit breaker at the wall of the darkroom or unplug the Processor.

[3] Turn off the water to the Processor.

[4] Check that the Developer and Fixer Drain Valves **(22, 23)** are closed.

[5] Remove the Evaporation Cover **(11)** , the Crossover **(14)** that has the "D" and "F" on it, and the Developer Rack **(12)** .

[6] Rinse the Pitcher **(43)** .

[7] Pour 3.8 litres of the fixer solution mixed on Page 11 into the Pitcher **(43)** . Then, with the Fixer Rack **(15)** in place, carefully pour the solution into the Fixer Tank **(40)** .

Important

Avoid contamination of the developer by removing any splashes of fixer from the empty Developer Tank. Clean the Pitcher after each use.

[8] Clean the Pitcher **(43)** under running water.

[9] Wipe the Developer Tank **(39)** with a damp towel.

[10] Install the Developer Rack **(12)** .

[11] Pour 3.8 litres of the developer solution mixed on Page 11 into the Pitcher. If Developer Starter has not been added to the Developer Replenishment Container, add 3 fl oz (90 mL) of Starter to the Pitcher.

[12] Carefully pour the developer solution into the Developer Tank **(39)** .

[13] Install the:

- Evaporation Cover
- Crossover
- Top Cover on the Processor

[14] Insert the Drain Hoses **(24, 25, 28)** into the correct Drain Containers **(38, 37, 36)** .

- Do not insert the Hoses too far into the Containers.
- Do not bend the Hoses.

[15] Turn on the power main circuit breaker at the wall or plug in the Processor.

[16] Press the " | " on the "Power" Switch **(20)** to turn the Processor on.

[17] Turn on the water to the Processor.

Section 4: Preventive Maintenance

Important

For trouble-free operation of the Processor, perform maintenance periodically in accordance with the following suggestions.

Daily Maintenance

[1] At the start of each processing day, do the Start-Up procedure on Page 6.

[2] At the end of each processing day, do the Shutdown procedure on Page 8.

Weekly Maintenance



Caution

When you install or remove the Fixer Rack **(15)** , be careful not to splash fixer chemicals into the Developer Tank **(39)** . Do not try to clean developer stains completely from the Racks or Tanks.

[1] Remove the 2 Crossovers **(14)** , and the three Racks **(12, 15, 16)** , rinse them with water, and remove any dirt with a damp towel.

- **(a)** Remove any crystals from the Drive Gears **(19)** with a non-abrasive sponge or lint-free cloth.
- **(b)** Rotate the Drive Gears by hand to check that each Roller **(13)** rotates smoothly.
- **(c)** Check that the Rollers are not damaged.
- **(d)** Check the Wash Rack **(16)** for biological growth. If necessary, rinse the Rack well and clean it with a soft sponge or lint-free cloth.

[2] Wipe the underside of the Top Cover **(1)** with a damp towel.

[3] Check that developer has not splashed onto the Feed Tray. Wipe any splashes from the Feed Tray.

[4] Wipe the Feed Tray **(21)** with a dry lint-free cloth.

Monthly Maintenance

[1] In addition to the daily and weekly maintenance steps, do the following steps at least once a month.

[2] Unplug the Processor, and drain the Tanks.

[3] Use a soft, non-abrasive sponge or lint-free cloth to clean the three Racks **(12, 15, 16)** . Take care not to damage the rubber Rollers.

[4] Check that all Rollers **(13)** rotate smoothly.

[5] Check each Tank for crystals from the solutions. If crystals are found, soften them with a damp towel and wipe them off.

[6] Install new 2 Replenishment Filters **(32)** .

[7] If bacterial growth has occurred in the Wash Tank **(41)** of the Processor, do the following:

- **(a)** Plug the end of the Wash Water Drain Hose **(28)** .
- **(b)** Mix a mild solution of 90 mL (3 fl oz) of liquid bleach in 5.5 L (1.5 gal.) of water.
- **(c)** Fill the Wash Tank **(41)** until the bleach solution comes out of the Wash Water Overflow Hose **(29)** .
- **(d)** Let the bleach solution stay in the Wash Tank for 15 - 20 minutes.
- **(e)** Unplug the Wash Water Drain Hose.
- **(f)** When the bleach solution has emptied from the Wash Tank, rinse the Wash Tank 3 times with water.

[8] Mix new chemicals. See Page 11.

Note

If the image quality of the film has been satisfactory, you may use the solutions longer than a month.

[9] Install the Racks **(12, 15, 16)** .

[10] Install the Crossovers **(14)** .

(a) Match the red “D” and blue “F” and white “W” on the Crossovers with the same letters on the Racks.

(b) Push the right and left corners of the Crossover to check that it is set accurately.

[11] Rotate the Drive Gears **(19)** on the Racks to engage them with the Drive Shaft **(18)** .

[12] Fill the Developer and Fixer Tanks **(39, 40)** with solutions. See Page 11.

Troubleshooting

If you have a problem with the Processor, check this list of possible causes. If the problem is not solved by the actions listed here, contact your service provider.

Problem	Problem Analysis	Action If this does not solve the problem, contact your service provider.
Film is slanted	• Film is inserted improperly. • Springs that squeeze the Rollers together are dislocated.	• Insert film along the left side of the Feed Tray. • Attach the springs correctly.
Film is jamming	• Film does not enter between the Rollers. • Crossovers are not installed in the Processor. • An air tube in the Dryer Rack is dislodged. • The Top Cover is misaligned.	• Check whether the Springs that squeeze the Rollers are dislocated. Reattach. • Install the Crossovers. • Call the service provider. • Install the Top Cover correctly.
Scratches or marks on the film surface:		
1. Linear scratches or dirt along the film transport direction	• The Rollers are scratched or dirty	• For black marks, check and gently clean the parts in the Rollers along the film path. • For white marks, check and gently clean the Rollers in the Developer Rack, using KODAK Roller Transport Cleanup Film CAT No. 166 2303.
2. Marks at 63 mm intervals along the film transport direction	• The Rollers are flawed or dirty.	• For black marks, check and gently clean the Rollers in the Developer Rack. • For white marks, check and gently clean the Rollers in the Fixer and Dryer Racks.
3. Random scratch or mark	• The Feed Tray is dirty	• Clean the Feed Tray.

Problem	Problem Analysis	Action If this does not solve the problem, contact your service provider.
Fogging	• The developer is contaminated. • The Top Cover is not on properly. • The room is too bright. • Felt or foam is coming off the Processor.	• Drain the developer from the Processor, and do the cleaning procedure on Page 9 for the Developer Tank. • Check that the Top Cover is fully closed. • Reduce the light in the room. • Call the service provider.
Film cannot be inserted	• The film is held by moisture on the Feed Tray. • Top Cover is misaligned.	• Clean and dry the Feed Tray. See Page 7, for correct film-feeding instructions. • Install the Top Cover correctly.
Base density too high	• The fixer has mixed with the developer. • The developer has deteriorated.	• Drain the developer from the Processor, and do the cleaning procedure on Page 9 for the Developer Tank. • Mix new developer.
Base density too low, improper development	• Replenishment amount is insufficient. • The chemicals are deteriorated. • The developer temperature is too low.	• Check the volume of replenishment solutions in the Replenishment Containers. Check that the Hoses are not bent. • Replace the chemicals. • Contact the service provider.
Improper fixing, poor transparency	• Replenishment amount is insufficient. • The fixer is deteriorated.	• Check the preset replenishment amount. • Replace the chemicals.
Improper washing, white deposits on the film surface	• Wash Tank is not full.	• Adjust the flow of water coming into the Processor.
Improper drying	• The preset temperature is incorrect. • An air tube in the Dryer Rack is dislodged.	• Adjust the Dryer Temperature Control Knob. • Call the service provider.
Solution in a Tank is not moving	Air could be trapped in the Recirculation Pump.	Open the Drain Valve and drain a small amount of solution. If the solution does not start to move, do it again. If after several attempts, there is still no movement, call the service provider.

Section 5: Warranty (U.S. only)

Note

Kodak warrants this KODAK X-OMAT 1000 or 1000A or 1000J Processor to function properly for one year from the date of initial installation, when installed within 1 year from the date of shipment.

Warranty Repair Coverage

If this equipment does not function properly during the warranty period, the dealer for KODAK X-OMAT Processors who sold the equipment will provide or arrange for repair of the equipment during the dealer's normal working hours. Such repair service will include any necessary adjustments and/or replacement of parts necessary to maintain your equipment in good working order.

How to Obtain Service

Should equipment require service, refer to the sales contract for details on whom to call for service, or contact the dealer for KODAK X-OMAT Processors who sold the equipment.

Limitations

Warranty service is limited to the contiguous United States, the island of Oahu in Hawaii, and certain areas of Alaska.

This warranty does not cover: circumstances beyond Kodak's control; misuse; abuse; any attachments, accessories, or alterations not marketed by Kodak (including service or parts to correct problems resulting from the use of such attachments, accessories or alterations); failure to follow Kodak's operating instructions; or supply items.

Kodak makes no other warranties, express, implied, or of merchantability for this equipment.

Repair without charge is Kodak's and the dealer's only obligation under this warranty.

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Table 1 Publication History

Print Date	Pub. No.	ECO No.	Affected Pages	File Name	Notes
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